2008 Buick Enclave

All installations by Bob Beranek

Vehicle information

Vehicle type: Four-door crossover vehicle

NAGS® numbers*: Windshield part numbers DW1681, third visor, acoustic interlayer, solar, DW1714, third visor, acoustic interlayer, solar, heads-up display; front door glass DD11277-78, laminated, solar; rear door glass DD11279-80, privacy, solar; rear quarter glass DQ11283-84, privacy, solar; and back glass DB11285, wiper, heated, solar.

Watch for: The front door glass has an express-up feature that needs to be reset. At press time, the service manual for this vehicle did not include reset procedures, so follow General Motors' past instructions as included in this article. Also note, the underside of the front and rear door glass panels' top edge is sharp and can cause injury. The back glass comes with a wiper grommet already in place.

Note: This article includes installation instructions for the rear vent glass; however, at press time NAGS did not list a rear vent glass part number in its database.

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A. Windshield

Preparation

1. Always wear eye and hand protection when working with glass. Make sure you have the right glass and moldings and the urethane systems you are about to use are current. Windshield part numbers are DW1681 and DW1714.

2. Cover the front seats, floorboards, dash and steering wheel with a clean drop cloth or disposable plastic covers.

3. Drape a fender cover over the fender and tape up any vulnerable areas on the vehicle to protect against damage. Tape up the defroster vents to prevent debris from falling into the openings.

4. To remove the rearview mirror, loosen the 20T Torx set screw at the base and slide the mirror off the pad.

5. Remove the windshield-wiper nut covers.

6. Remove the windshield-wiper nuts using a 15-millimeter wrench or socket. Move the wiper arm in an up-and-down motion to break it loose from the post, or use a wiper puller. ***Note:*** Wipers can sometimes be hard to remove. Use a wiper puller to avoid stressing the post.

7. Release and remove the four cowl retainers on the cowl panel's leading edge by prying up the top portion of the retainer and removing the rest.

8. Remove the 15-millimeter ground bolt on the passenger side of the vehicle. It is designed for use when jump-starting the vehicle.

9. Release the approximately six retainers on the underside of the cowl panel fascia.

10. Remove the cowl panel.

11. The underside-style top and side molding resembles a pre-applied adhesive system. Do not, however, treat it the way you would a PAAS-type installation. The part is a molding, not a PAAS, and will come attached to the glass.

Note: Before beginning windshield removal, verify the new windshield is the correct one and the urethanes and primers are current. Never use outdated products as this could jeopardize the structural integrity of the vehicle and the safety of its passengers.

Removal

12. Make sure cutting blades are sufficiently sharp.

13. Before cutting out the windshield, remove contaminants from the glass and pinchweld to prevent contact with the urethane.

14. Use the cutting tools of your choice to remove the glass from the adhesive bead. ***Note:*** The glass has sufficient room for you to use a cold knife if you do not need to salvage the moldings. If you use a power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts. ***Caution:*** Be careful not to hit or cut the gravity stops; mark their location with a marking pencil or retention tape.

15. Take the windshield out of the opening using vacuum cups. ***Note:*** Make sure the vacuum cups do not overlap a crack in the glass.

16. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

17. After cutting the windshield out, remove contaminants such as dirt, moisture and debris from the pinchweld. Clean the dashboard.

18. Remove and retain any setting blocks embedded in the

urethane bead. You will re-use them if you're installing an HUD windshield. The setting blocks accurately position the glass at the proper height for clear HUD projection.

19. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.

20. Place your vacuum cups on the windshield in the appropriate location.

21. Set the windshield onto the old urethane.

22. With the windshield resting in the opening, make sure it is in the right spot.

23. Adjust both sides to the correct setting, marking the passenger's side, then the driver's side. Lift the glass and place it on a windshield stand or suitable workstation.

24. Follow the urethane manufacturer's recommendations for installation.

25. Clean the inside of the windshield using a urethane manufacturer-recommended product. ***Note:*** Do not touch the bonding area of the windshield after cleaning, prepping or priming it.

26. Wear powder-free Nitrile gloves to keep off chemicals.

27. Apply the glass prep and primer, following the urethane manufacturer's recommendations.

28. Using the tool of your choice, remove the original urethane bead, leaving 1-2 millimeters of existing urethane on the pinchweld. ***Note:*** Make sure there are no contaminants, and do not touch the pinchweld after you have prepped the area.

29. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. ***Note:*** Allow preps and primers to dry as recommended by the urethane manufacturer.

30. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. Before cutting your V-notch, cut the tip off of your nozzle with a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at 1/16-inch higher than the roofline, make a mark on the nozzle with a pen or marker. Notch the nozzle up to the marked line; this will give you the appropriate triangular bead.

31. If you are replacing an HUD windshield, place the setting blocks in strategic positions to support and position the glass.

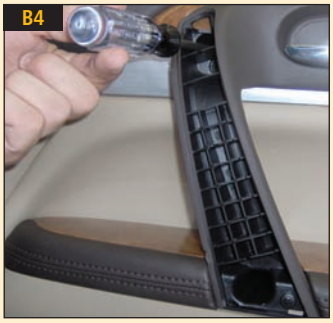
32. Lift the windshield from the windshield stand or workstation using vacuum cups. Set the windshield on the urethane at the mark you made during dry fit. Lower the driver's side of the windshield onto the urethane and line it up with the dry-fit mark; it is now in place.

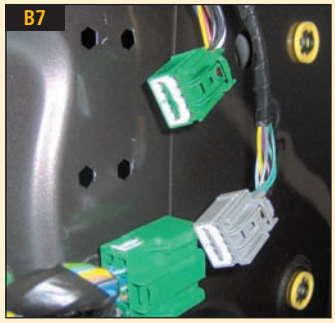
33. The windshield is now ready to be decked. Press firmly to ensure a good seal.

34. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the windshield. If you find a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.

35. Re-install the removed parts in reverse order.

36. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer. ***Warning:*** Disregarding the safe drive-away time your urethane manufacturer recommends could jeopardize the structural integrity of the vehicle and the safety of its passengers.





37. You have completed the removal and replacement of the windshield.

B. Front door glass

Removal

1. Make sure you have the right glass. Front door glass part numbers are DD11277-78.

2. Remove the screw cover, back to front, under the door latch and remove the 30T Torx screw.

3. Remove the screw cover under the door-pull area and remove the two 30T Torx screws.

4. The passenger-side door panel has a different design than the driver's side panel. Remove the screw cover from the actual door pull and the two 10-millimeter screws underneath.

5. The nine door-panel retainers have an aggressive bite, and it might feel like you'll damage the panel during removal. However, once you've released one retainer, they pull off relatively easily.

6. Disconnect the door-latch linkage connector using pointed-nose pliers. Depress the locking wings and pull out from the receptacle.

7. Disconnect the wiring harnesses from the panel and doorframe.

8. Remove the door panel and set it in a safe place. ***Caution:*** The underside of the panel's top edge is sharp and can cause injury.

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9. Remove the weather barrier and upper grommet that fills the access hole for the front mounting bolt. Remove the front mounting bolt. Carefully lower the glass to align the rear mounting bolt with the lower access hole. Remove the 10-millimeter nut from the glass and regulator. ***Note:*** You do not need to remove the black foam spacer located in the access hole to access the retaining bolts.

10. Lift the glass from the door.

Installation

11. Insert the glass nose-first into the doorframe and align the front and rear glass edge in the vertical run guides.

12. Lower the glass to the lower access hole and attach the rear mounting bolt. Tighten by hand.

13. Raise the regulator to the upper access hole. Attach the front mounting bolt and tighten.

14. Return to the rear mounting bolt and tighten.

15. Reset the express-up feature. ***Note:*** The following instructions may not be correct for this vehicle. At press time, the service manual did not include reset instructions. What follows are past instructions for GM vehicles.

16. Close the door to re-initialize the window.

17. Turn on the ignition, but do not turn on the engine.

18. Run the window to the full "up" position and hold the switch for at least half a second.

19. Run the window to the full "down" position and hold the switch for at least half a second.

20. Repeat as often as necessary for the express-up feature to reset.

21. Re-install the door panel and all attachments to the doorframe in reverse order of removal.

22. You have completed the removal and replacement of the front door glass.

C. Rear door glass

Removal

1. Make sure you have the right glass. Rear door glass part numbers are DD11279-80.

2. Remove the screw cover, back to front, under the door latch and remove the 30T Torx screw.

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3. Remove the screw cover under the door-pull area and remove the two 30T Torx screws.

4. The nine door-panel retainers have an aggressive bite, and it might feel like you'll damage the panel during removal. However, once you've released one retainer, they pull off relatively easily.

5. Disconnect the door-latch linkage connector using pointed-nose pliers. Depress the locking wings and pull out from the receptacle.

6. Disconnect the wiring harnesses from the panel and doorframe.

7. Remove the door panel and set it in a safe place. ***Caution:*** The underside of the panel's top edge is sharp and can cause injury.

8. Remove the weather barrier and lower the glass to align the mounting bolts with the access holes. Remove the 10-millimeter nuts from the glass and regulator. ***Note:*** You do not need to remove the black foam spacer located in the access hole to access the retaining bolts.

9. Lift the glass from the door.

Installation

10. Insert the glass nose-first into the doorframe and align the front and rear glass edge in the vertical run guides.

11. Lower the glass to the lower access holes, and attach and tighten the mounting bolts.

12. Re-install the removed parts in reverse order.

13. Check operation to ensure proper installation.

14. You have completed the removal and replacement of the rear door glass.

D. Vent glass

Removal

1. Make sure you have the right glass. ***Note:*** At press time, NAGS did not list a rear vent glass part number in its database.

2. To remove the vent glass, first remove the door glass. Follow steps 2-9 in section C.

3. Peel back the door weatherstrip just above the top of the division bar.

4. Remove the Phillips screw.

5. Remove the 10-millimeter bolt from the access hole just

below the beltline of the door at the division-bar base.

6. Remove the glass and weatherstrip surrounding the glass edge.

Installation

7. Attach the weatherstrip to the glass edge and lubricate.
8. Slide the glass into position in the doorframe.
9. Put the division bar back in place.
10. Replace the Phillips screw and 10-millimeter bolt that secure the division bar.
11. Replace the door glass, following steps 10-14 in section C.
12. Re-install the other parts in reverse order of removal.
13. Check operation to ensure proper installation.
14. You have completed the removal and replacement of the vent glass.

E. Quarter glass

Removal

1. Make sure you have the right glass, encapsulated with chrome accents. Part numbers are DQ11283-84.
2. An exterior color-coordinated panel overlaps part of the encapsulation. It is held in place with aggressive retainers reminiscent of those on the Chevy Equinox A-pillar moldings. ***Caution:*** Take care to avoid damage.
3. Remove the decorative panel.
4. Use the tool of your choice to cut out the glass. ***Caution:*** Remove all interior parts to prevent damage during cutout.

Installation

5. After cutting the quarter glass out, remove contaminants such as dirt, moisture and other debris from the pinchweld.
6. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.
7. Place your vacuum cups on the quarter glass in the appropriate location.
8. Lift the quarter glass from the workstation using vacuum cups.
9. With the quarter glass resting in the opening, make sure it is in the right spot.
10. Adjust both sides to the correct setting and make your mark. Lift the glass and place it on a windshield stand or suitable workstation.
11. Follow the urethane manufacturer's recommendations for installation. Verify the urethanes and primers are up to date.
12. Clean the inside of the quarter glass using a urethane manufacturer-recommended product. ***Note:*** Do not touch the bonding area of the quarter glass after cleaning, prepping or priming it.
13. Wear powder-free Nitrile gloves to keep off chemicals.
14. Apply the glass prep and primer following the urethane manufacturer's recommendations.
15. Using a pinchweld scraper, remove as much of the original urethane as the urethane manufacturer recommends. ***Note:*** Before removing the old urethane, make sure there are no contaminants and do not touch the pinchweld after you have prepped the area.
16. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. ***Note:*** Allow preps and primers to dry as recommended by the urethane manufacturer.
17. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. Before cutting your V-notch, cut the tip off of your nozzle with a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at 1/16-inch higher than the roof- and bodyline, make a mark on the nozzle with a pen or marker. Notch the nozzle up to the marked line; this will give you the appropriate triangular bead.
18. Place your vacuum cups on the quarter glass in the appropriate location.
19. Lift the quarter glass from the windshield stand or workstation using vacuum cups.
20. Set the quarter glass in the opening.
21. The quarter glass is now ready to be decked. Press firmly to ensure a good seal.
22. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the quarter glass. If you find a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.
23. Re-install the removed parts in reverse order.
24. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer.
25. You have completed the removal and replacement of the quarter glass.

F. Back glass

Removal

1. Make sure you have the right glass. The part comes with the wiper grommet already in place. Part number is DB11285.

2. The hatchback is automatic. The glass has exposed edges on all sides and is relatively close to the pinchweld wall, especially on the bottom.

3. Remove the wiper cap and the 13-millimeter nut. Lift and wiggle the wiper until it's free from the post.

4. Open the hatchback and remove the interior garnish moldings using your fingers.

5. Disconnect the antenna and defroster connectors.

6. Cut out the glass using the tool of your choice. ***Note:*** When using any power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts.

Installation

7. After cutting the back glass out, remove contaminants such as dirt, moisture and other debris from the pinchweld.

8. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.

9. Place your vacuum cups on the back glass in the appropriate location.

10. Set the back glass onto the old urethane.

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11. With the back glass resting in the opening, make sure it is in the right spot.

12. Adjust both sides to the correct setting, marking the passenger's side, then the driver's side. Lift the glass and place it on a windshield stand or suitable workstation.

13. Follow the urethane manufacturer's recommendations for installation. Verify the urethanes and primers are up to date.

14. Clean the inside of the glass using a urethane manufacturer-recommended product. ***Note:*** Do not touch the bonding area of the back glass after cleaning, prepping or priming it.

15. Wear powder-free Nitrile gloves to keep off chemicals.

16. Apply the glass prep and primer, following the urethane manufacturer's recommendations.

17. Using the tool of your choice, remove as much of the original urethane as the urethane manufacturer recommends. ***Note:*** Before removing the old urethane, make sure there are no contaminants and do not touch the pinchweld after you have prepped the area.

18. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. ***Note:*** Allow preps and primers to dry as recommended by the urethane manufacturer.

19. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. Before cutting your V-notch, cut the tip off of your nozzle with a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at 1/16-inch higher than the roof- and bodyline, make a mark on the nozzle with a pen or marker. Notch the nozzle up to the marked line; this will give you the appropriate triangular bead. ***Note:*** Make sure the new bead is directly on the old bead or it will be visible to the customer.

20. Place your vacuum cups on the back glass in the appropriate location.

21. Lift the glass from the windshield stand or workstation using vacuum cups.

22. Set the back glass in the opening, making sure the wiper hole lines up with the post. Set the bottom first.

23. The back glass is now ready to be decked. Press firmly to ensure a good seal.

24. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the back glass, or spray with water. If you find a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.

25. Re-install the removed parts in reverse order. Check operation of the defroster, keyless entry fob and rear wiper.

26. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer.

27. You have completed the removal and replacement of the back glass. ***AG***

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